



# 2016-2017 Winter Preparedness Policy Session Illinois Commerce Commission

Richard Mathias  
PJM Interconnection  
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- **Existing Capacity:** Nuclear represents 41 percent of the total installed capacity in Illinois while natural gas represents 42 percent. This differs from PJM where natural gas and coal are relatively even at 34 and 35 percent respectively.
- **Interconnection Requests:** Natural gas represents 91 percent of new interconnection requests in Illinois.
- **Deactivations:** Approximately 251 MW of capacity in Illinois retired in 2015. This represents two percent of the 10,200 MW that retired RTO-wide in 2015.
- **Load Forecast:** Illinois load growth is nearly flat, averaging less than one percent per year over the next 10 years. This aligns with PJM RTO load growth projections.

# Illinois - Existing Installed Capacity

(Capacity Rights, December 31, 2015)

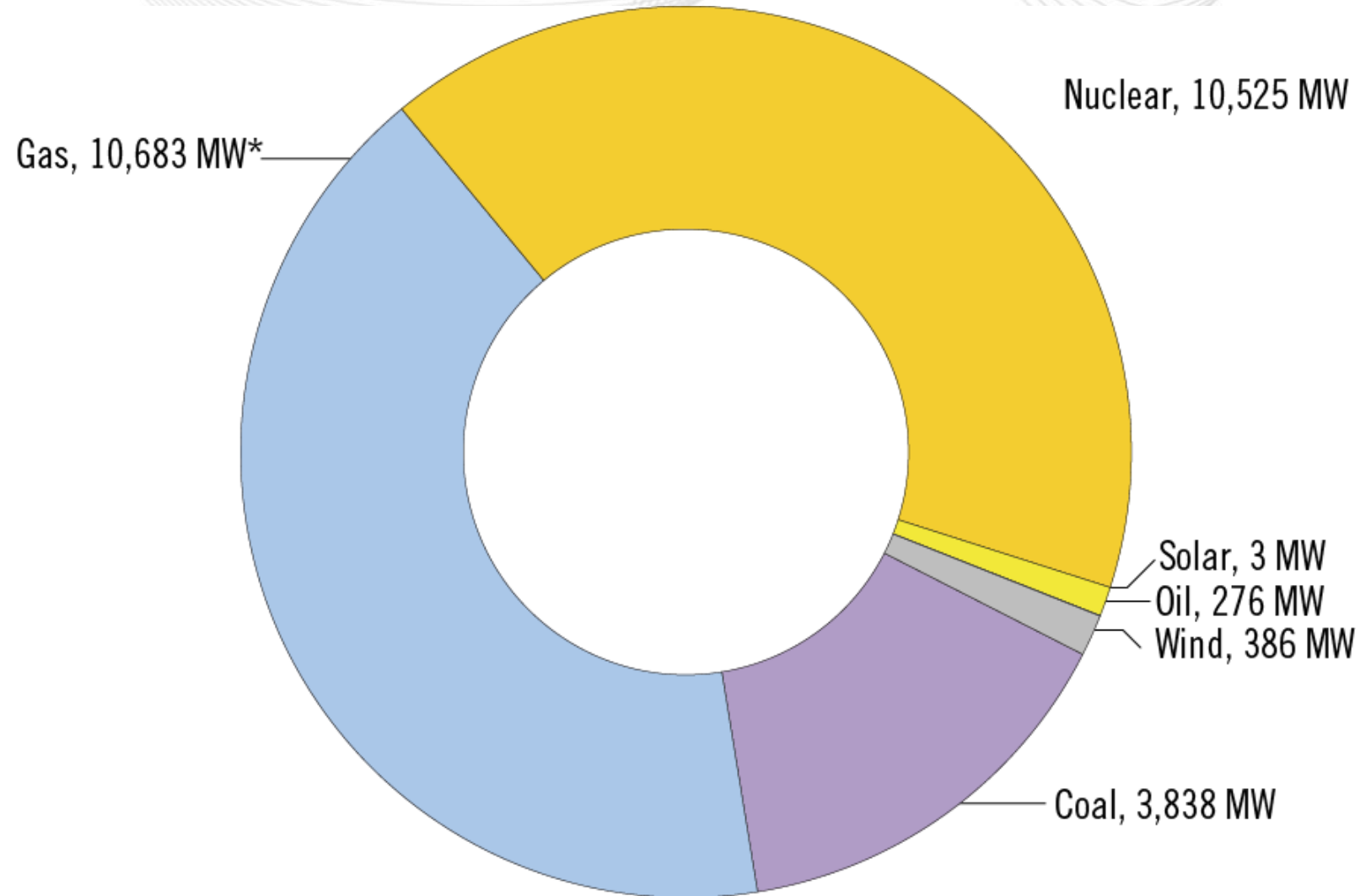
## Summary:

Nuclear represents 41 percent of the total installed capacity in Illinois while natural gas represents 42 percent.

Overall in PJM, natural gas and coal are relatively even at 34 percent and 35 percent respectively.

### \* Gas Contains

Natural Gas	10,670 MW
Other Gas	12 MW



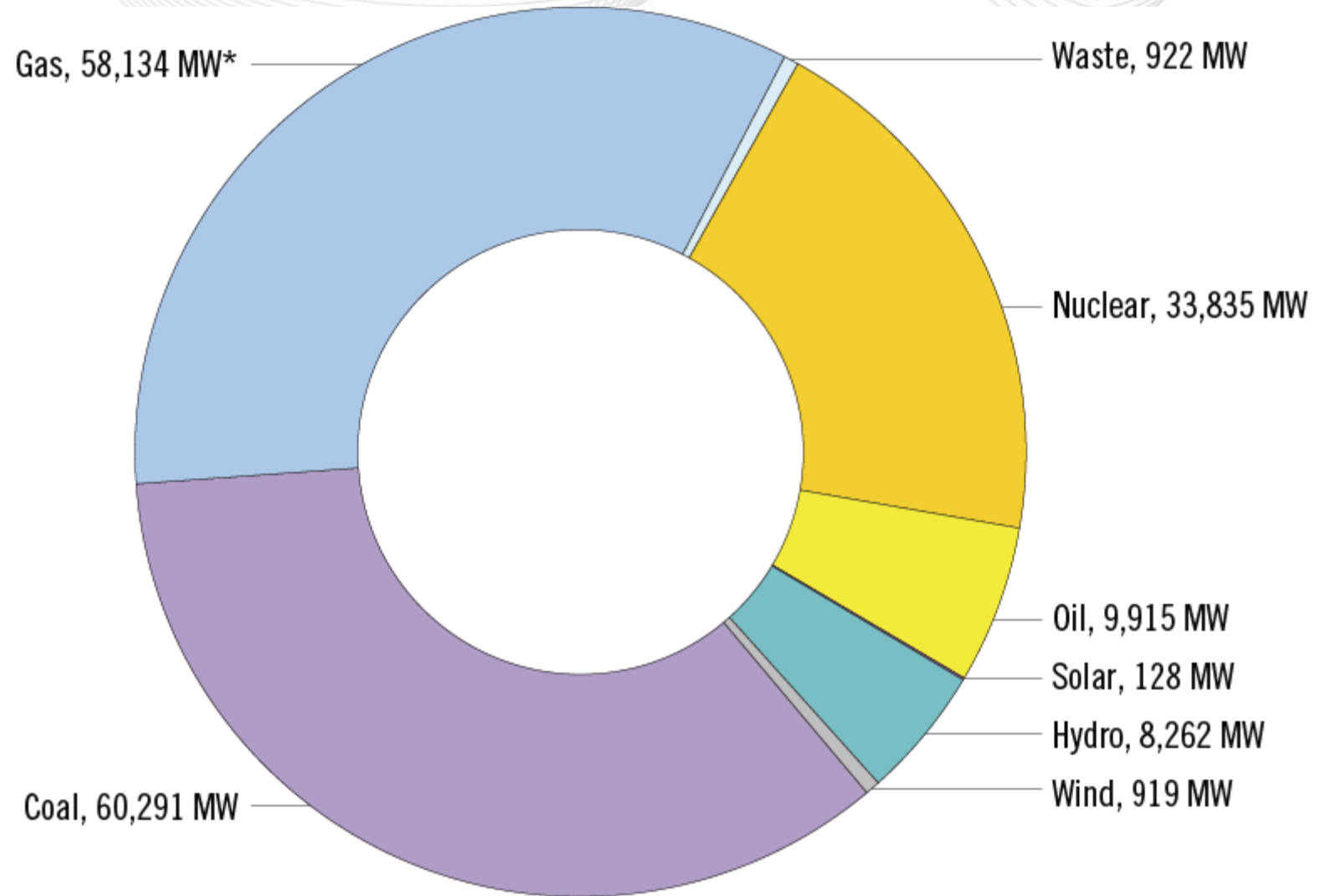
# PJM - Existing Installed Capacity

(Capacity Rights, December 31, 2015)

In PJM, natural gas and coal make up nearly 70 percent total installed capacity.

## \* Gas Contains

Natural Gas	57,735 MW
Other Gas	399 MW



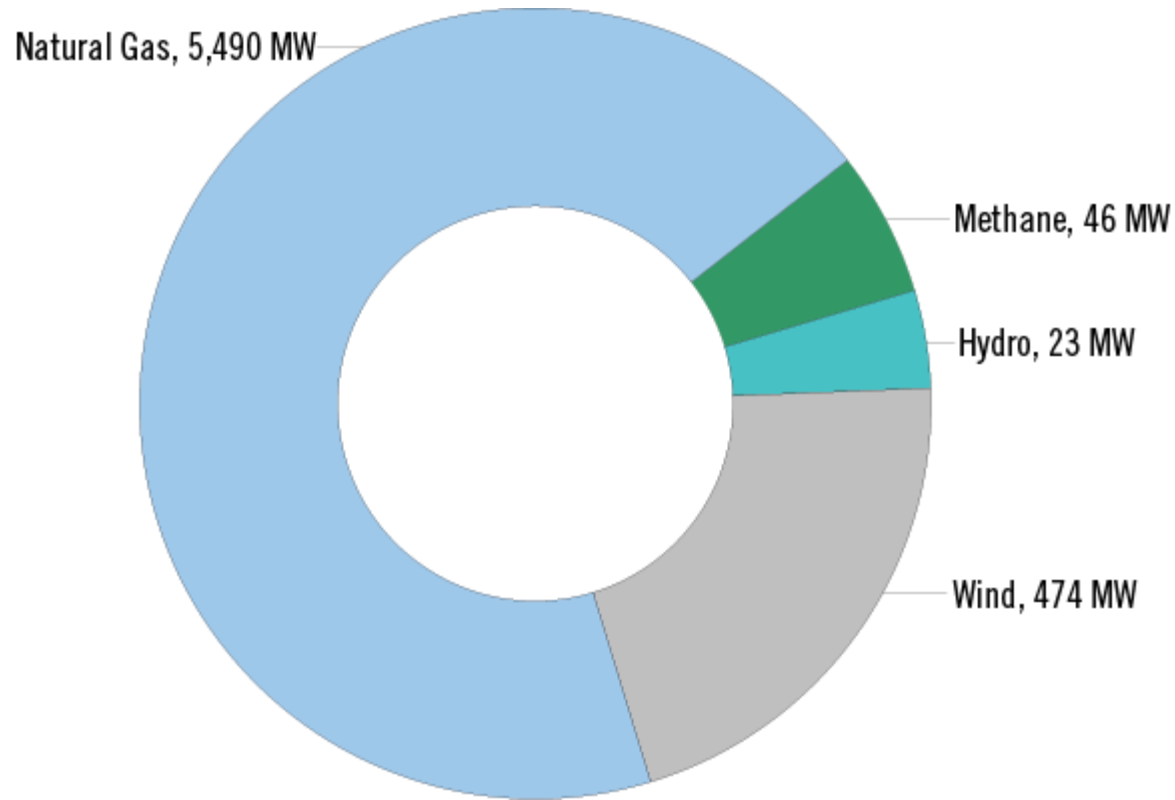


# Illinois - Interconnection Requests

(Requested Capacity Rights, December 31, 2015)

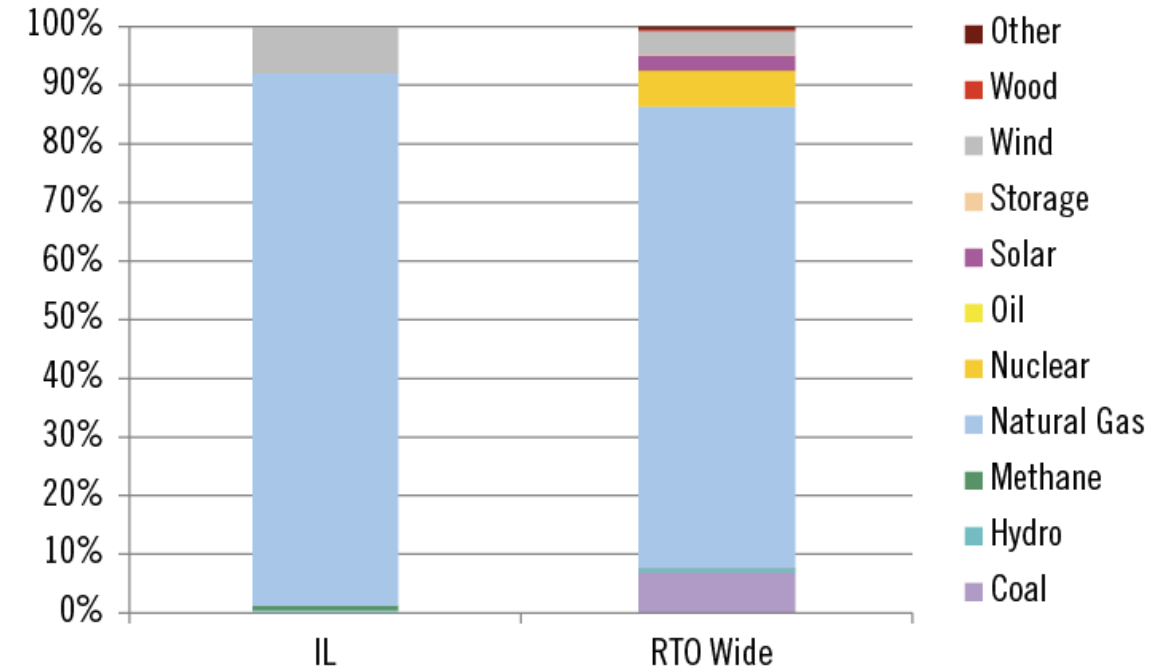
Natural gas represents 91 percent of new interconnection requests in Illinois.

## Total MW Capacity by Fuel Type



	MW	# of Projects
Active	5,650.2	38
Under Construction	240.4	11
Suspended	142.0	2
Total	6,032.6	51

## Fuel as a Percentage of Projects in Queue





# Illinois\* - 2016 Load Forecast Report

(December 31, 2015)

T. O.	Summer Peak (MW)			Winter Peak (MW)		
	2016	2026	Growth Rate (%)	2015/16	2025/26	Growth Rate (%)
Commonwealth Edison Company	22,001	23,633	0.7%	15,579	16,974	0.9%
PJM RTO	130,243	140,912	0.8%	152,131	161,891	0.6%

\* PJM notes that it does not serve the entire state of Illinois.

<b>Gas Generators</b>	<b>Dual Fuel Capable (MW)</b>	<b>Total Generator (MW)</b>
Connected to Interstate Pipelines	500	7,300 (69%)
Behind the Local Distribution Company	0	3,300 (31%)
<b>Total Gas Fired Generators</b>	<b>500</b>	<b>10,600</b>

<b>Interstate Pipelines</b>	<b>Local Distribution Companies</b>
ANR Pipeline	MidAmerican Energy Company
Northern Border Pipeline	Nicor Gas
National Fuel Gas Supply Corporation (NFG)	People's Natural Gas
Vector Pipeline	

Estimated Average Generation Outages for late October						
	Maintenance Outages AVG COUNT/ DAY	Maintenance Outages AVG MW / DAY	Planned Outages AVG COUNT / DAY	Planned Outages AVG MW / DAY	TOTAL AVG COUNT / DAY	TOTAL AVG MW / DAY
RTO	26	1147	8	1356	35	2502
COMED	6	308	3	418	8	726
COMED %	20.9%	26.8%	32.0%	30.8%	23.6%	29.0%



## 50/50 Non-diversified Peak Load Base Case

LAS Load Forecast	135,548 MW
RTO Net Interchange	5,175 MW** (Importing)
PJM RTO Installed Capacity	183,665 * (as of 8/01/2016)
Discrete Generator Outages	20,230 MW